# (19) World Intellectual Property Organization International Bureau





### (43) International Publication Date 21 April 2005 (21.04.2005)

PCT

## (10) International Publication Number WO 2005/035929 A3

- (51) International Patent Classification7: F42B 1/032, 3/28
- (21) International Application Number:

PCT/GB2004/004263

- (22) International Filing Date: 8 October 2004 (08.10.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0323675.9

10 October 2003 (10.10.2003)

- (71) Applicant (for all designated States except US): QINE-TIQ LIMITED [GB/GB]; Registered Office, 85 Buckingham Gate, London SW1E 6PD (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MEDDES, Russell, Vaughan [GB/GB]; QinetiQ Limited, Cody Technology Park, Ively Road, A7 Bldg, Farnborough, Hants GU14 0LX (GB). HINTON, Michael, John [GB/GB]; QinetiQ Limited, Fort Halstead, Bldg H7, Sevenoaks, Kent TN14 7BP (GB).

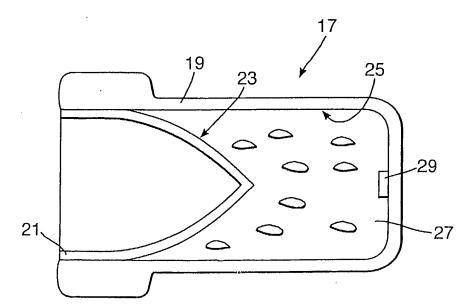
- (74) Agent: TOCHER, A., J.; QinetiQ Limited, Intellectual Property, Cody Technology Park, Ively Road, Farnborough, Hants GU14 0LX (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: IMPROVEMENTS IN AND RELATING TO PERFORATORS



(57) Abstract: A composite material case (19) and liner (21) is described for use in a perforator (17) for completing wells such as oil, gas and water wells (1). The materials selected are intended to exhibit stability during prolonged periods at the raised temperatures and pressures present in a well (1).

SEST AVAILABLE COPY

### WO 2005/035929 A3



#### Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 20 October 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.